

| FORM PTO-1449<br><br>INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION |  | DOCKET NUMBER<br>TCU 327         | APPLICATION NUMBER<br>10/658,120 |       |           |                            |
|---|--|----------------------------------|----------------------------------|-------|-----------|----------------------------|
|   |  | APPLICANT<br>John G. Maneatis    |                                  |       |           |                            |
|   |  | FILING DATE<br>September 8, 2003 | GROUP ART UNIT<br>2817           |       |           |                            |
| <b>U.S. PATENT DOCUMENTS</b>  |  |                                  |                                  |       |           |                            |
| EXAMINER INITIAL  | DOCUMENT NUMBER  | DATE                             | NAME                             | CLASS | SUB CLASS | FIL. DATE IF APPROP.       |
| MBS   | 4,608,530  | 8/26/86                          | Bacrania                         | —     | —         |                            |
|   | 4,644,536  | 2/17/87                          | Utsumi                           | —     | —         |                            |
|   | 4,792,768  | 12/20/88                         | Fried et al.                     | —     | —         |                            |
|   | 5,043,677  | 8/27/91                          | Tomassetti et al.                | —     | —         |                            |
|   | 5,144,156  | 9/1/92                           | Kawasaki                         | —     | —         |                            |
|   | 5,285,114  | 2/8/94                           | Atriss et al.                    | —     | —         |                            |
|   | 5,375,148  | 12/20/94                         | Parker et al.                    | —     | —         |                            |
|   | 5,508,660  | 4/16/96                          | Gersbach et al.                  | —     | —         |                            |
|   | 5,512,816  | 4/30/96                          | Lambert                          | —     | —         |                            |
|   | 5,629,650  | 5/13/97                          | Gersbach et al.                  | —     | —         |                            |
| MBS   | 5,687,201  | 11/11/97                         | McClellan et al.                 | —     | —         |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>   |  |                                  |                                  |       |           |                            |
|   | DOCUMENT NUMBER  | DATE                             | COUNTRY                          | CLASS | SUB CLASS | TRANSLATION<br>YES      NO |
| MBS   | 2002-217721  | 8/2/02                           | Japan                            | —     | —         | XX                         |
|   |  |                                  |                                  |       |           |                            |
|   |  |                                  |                                  |       |           |                            |
| <b>OTHER DOCUMENTS</b>  |  |                                  |                                  |       |           |                            |
| MBS   | <i>A Fully-Configurable GSM BTS Controller and GMSK-EDGE Base-Band Transmitter IC, Delmont et al., IEEE Solid-State Conference, pp. 352-353, February 5-7, 2001.</i> |                                  |                                  |       |           |                            |
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| EXAMINER<br><i>SHINGLETON</i>   | DATE CONSIDERED<br><i>3/1/2005</i>   |                                  |                                  |       |           |                            |

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| <b>U.S. PATENT DOCUMENTS</b>                         |                 |                                  |                  |                                  |           |                            |
| EXAMINER INITIAL                                     | DOCUMENT NUMBER | DATE                             | NAME             | CLASS                            | SUB CLASS | FIL. DATE IF APPROP.       |
| MBS  | 5,705,947       | 1/6/98                           | Jeong            | —                                | —         |                            |
|  | 5,727,037       | 3/10/98                          | Maneatis         | —                                | —         |                            |
|  | 5,731,696       | 3/24/98                          | Pennisi et al.   | —                                | —         |                            |
|  | 5,757,238       | 5/26/98                          | Ferraiolo et al. | —                                | —         |                            |
|  | 5,870,003       | 2/9/99                           | Boerstler        | —                                | —         |                            |
|  | 5,880,579       | 3/9/99                           | Wei et al.       | —                                | —         |                            |
|  | 5,900,784       | 5/4/99                           | O'Sullivan       | —                                | —         |                            |
|  | 5,945,855       | 8/31/99                          | Momtaz           | —                                | —         |                            |
|  | 5,959,502       | 9/28/99                          | Ovens et al.     | —                                | —         |                            |
|  | 5,986,485       | 11/16/99                         | O'Sullivan       | —                                | —         |                            |
| MBS  | 6,011,822       | 1/4/00                           | Dreyer           | —                                | —         |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>                      |                 |                                  |                  |                                  |           |                            |
|  | DOCUMENT NUMBER | DATE                             | COUNTRY          | CLASS                            | SUB CLASS | TRANSLATION<br>YES      NO |
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| <b>OTHER DOCUMENTS</b>                               |                 |                                  |                  |                                  |           |                            |
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| EXAMINER<br>SHINGLETON                               |                 |                                  | DATE CONSIDERED  |                                  | 3/1/05    |                            |

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| <b>U.S. PATENT DOCUMENTS</b>  |                                     |                                  |                                  |       |           |                            |
| EXAMINER INITIAL  | DOCUMENT NUMBER                     | DATE                             | NAME                             | CLASS | SUB CLASS | FIL DATE IF APPROP.        |
| MBS   | 6,043,695                           | 3/28/00                          | O'Sullivan                       | —     | —         |                            |
|   | 6,043,715                           | 3/28/00                          | Bailey et al.                    | —     | —         |                            |
|   | 6,054,882                           | 4/25/00                          | Izumikawa                        | —     | —         |                            |
|   | 6,067,336                           | 5/23/00                          | Peng                             | —     | —         |                            |
|   | 6,075,406                           | 6/13/00                          | Lee et al.                       | —     | —         |                            |
|   | 6,107,849                           | 8/22/00                          | Williams et al.                  | —     | —         |                            |
|   | 6,107,889                           | 8/22/00                          | Strange et al.                   | —     | —         |                            |
|   | 6,111,470                           | 8/29/00                          | Dufour                           | —     | —         |                            |
|   | 6,118,346                           | 9/12/00                          | Olgaard                          | —     | —         |                            |
|   | 6,124,741                           | 9/26/00                          | Arcus                            | —     | —         |                            |
| MBS   | 6,124,755                           | 9/26/00                          | Parker et al.                    | —     | —         |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>   |                                     |                                  |                                  |       |           |                            |
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| <b>OTHER DOCUMENTS</b>  |                                     |                                  |                                  |       |           |                            |
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| EXAMINER<br><i>SHINGLETON</i>   | DATE CONSIDERED<br><i>3/11/2005</i> |                                  |                                  |       |           |                            |

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| <i>MBs</i>  | 6,181,210       | 1/30/01                            | Wakayama                         | —     | —         |                            |
|   | 6,201,380       | 3/13/01                            | Tsujino et al.                   | —     | —         |                            |
|   | 6,215,363       | 4/10/01                            | Conta et al.                     | —     | —         |                            |
|   | 6,222,421       | 4/24/01                            | Kiyose                           | —     | —         |                            |
|   | 6,242,897       | 6/5/01                             | Savage et al.                    | —     | —         |                            |
|   | 6,262,610       | 7/17/01                            | Lo et al.                        | —     | —         |                            |
|   | 6,265,859       | 7/24/01                            | Datar et al.                     | —     | —         |                            |
|   | 6,275,097       | 8/14/01                            | Liang et al.                     | —     | —         |                            |
|   | 6,326,852       | 12/4/01                            | Wakayama                         | —     | —         |                            |
|   | 6,329,882       | 12/11/01                           | Fayneh et al.                    | —     | —         |                            |
| <i>MBs</i>  | 6,566,970       | 5/20/03                            | Injino, Jr.                      | —     | —         |                            |
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| <b>OTHER DOCUMENTS</b>  |                 |                                    |                                  |       |           |                            |
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